Lessons Learned

Weeks 6-9: Phase 3

Technical Aspects	*Mitigation*
➢ **Automated Feeding System** - Recognized that our vision for an automated feeding system was not feasible. - Cost of both conveyor and linear guide systems were above limits (~$3,500)	➢ **Remove automated feeding system** - Redesigned with a rolling fixture - Cost effective alternative - Suggest automated feeding system as future project concept (follow on)
➢ **Machine Shop** - Became “re-acquainted” with the machines and tools available in the machine shop	➢ **Subsequently used the machine shop for testing** - Mischa is now familiar with shop for further testing needs
➢**O-Ring** - O-Ring concept will not work. The groove needed to be created inside the brass attachment will not compress in the right way to create a seal. Brass in contact with CFM Nozzle is okay.	➢ **Benchmark** against the argon tank seal in machine shop. (Same concept utilized)
➢ **Software** - No one on the team had worked in depth with Solidworks - The full features of COMSOL were unknown -Team had no prior knowledge with controller Integrated Development Environments	➢ **Familiarized team member with Software** - Mischa utilized resources to familiarize self with Solidworks features - Alex and Dan became acquainted with IDEs through Controls Test 1

Interpersonal Aspects

➢ **Need to Communicate More Effectively**
- Team members are not always aware what work is being done/what needs to be done

Other

➢ **Documentation is Key**
- Work and meetings with SME's was not always documented

Mitigation

➢ **Make team members aware via email (or other method) of what is being done**
- Ericka checks in a few times per week on progress

Mitigation

➢ **Use Logbooks more often for every meeting**
- Team to review notes